CLEENOL For a cleaner, safer world

SAFETY DATA SHEET
OSMOS 2-IN-1 DISHWASHER DETERGENT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name OSMOS 2-IN-1 DISHWASHER DETERGENT

Internal identification OSM-2in1-2X5

Container size 2x5L

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning agent. Detergent.

1.3. Details of the supplier of the safety data sheet

Supplier

Cleenol Group Ltd
Neville House
Beaumont Road
Banbury
Oxon OX16 1RB
UK
Tel: +44 (0)1295 251721
sales@cleenol.co.uk

1.4. Emergency telephone number

Emergency telephone In case of a medical emergency following exposure to a chemical, call NHS Direct via 111 (UK only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

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Precautionary statements
P260 Do not breathe vapour/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.

Contains
SODIUM HYDROXIDE, TETRASODIUM ETHYLENEDIAMINETETRAACETATE (EDTA)

Supplementary precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM HYDROXIDE **10-30%**

CAS number: 1310-73-2 EC number: 215-185-5

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

TETRASODIUM ETHYLENEDIAMINETETRAACETATE (EDTA) **1-5%**

CAS number: 64-02-8 EC number: 200-573-9

Classification
Met. Corr. 1 - H290
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Skin Corr. 1 - H314
Eye Dam. 1 - H318
STOT RE 2 - H373

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Unlikely route of exposure as the product does not contain volatile substances.

Ingestion
Rinse mouth thoroughly with water. Do not induce vomiting. Give a few small glasses of water or milk to drink. Keep affected person under observation. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if symptoms are severe or persist after washing.

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Eye contact Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if symptoms are severe or persist after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion Corrosive. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Contact with concentrated chemical may cause severe skin damage.

Eye contact Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards Corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wash thoroughly after dealing with a spillage. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For professional users only. Avoid contact with skin, eyes and clothing. Handle and open container with care.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³
WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls No specific ventilation requirements.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection No specific recommendations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless to pale yellow.

Odour Characteristic.

pH pH (concentrated solution): 13 - 14

Flash point Not determined.

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Relative density	~ 1.257 @ 20°C
Viscosity	Not determined.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid	No specific requirements are anticipated under normal conditions of use.

10.5. Incompatible materials

Materials to avoid	Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.

Acute toxicity - oral

ATE oral (mg/kg)	12,500.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l)	37.5

Skin corrosion/irritation

Skin corrosion/irritation	Causes severe burns.
Extreme pH	≥ 11.5

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Inhalation	The product is considered to be a low hazard under normal conditions of use.
Ingestion	Corrosive. May cause chemical burns in mouth and throat.
Skin contact	Contact with concentrated chemical may cause severe skin damage.
Eye contact	Causes serious eye damage.

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Route of exposure Skin and/or eye contact Ingestion

SECTION 12: Ecological information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Toxicity The product is not believed to present a hazard due to its physical nature.

12.2. Persistence and degradability

Persistence and degradability The product contains inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out.

Disposal methods Dispose of contents/container in accordance with national regulations. Following dilution, discharge to the sewer with plenty of water may be permitted.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE)

14.3. Transport hazard class(es)

ADR/RID class 8

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ADR/RID classification code	C9
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Regulatory Chemist

OSMOS 2-IN-1 DISHWASHER DETERGENT

Revision date	19/05/2022
Revision	2
Supersedes date	18/03/2022
SDS number	21737
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.